

Local Road Maintenance Prioritization Literature Review

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Abstract—The quality of roads as public goods should be maintained and improved time to time. In order to put the available funds on the right roads for the optimal results, roads should be prioritized. This paper discussed how prioritization on road maintenance. The materials and method used are based on literature review. Discussion starts with the definition of local roads, the role of local road maintenance, and the definition of local road maintenance. The second part discuss the definition of prioritization, the objective of prioritization, and the roles of prioritization in road maintenance. The third part examines the common prioritization procedures conducted in planning process reflecting prioritization methods used in road maintenance prioritization. The fourth part discuss criteria in ranking alternatives which are single and multi criteria. The fifth part discuss the definition of actors, the roles of actors involved, the actors' attributes, and the types of actors in road maintenance prioritization process. According to the literature, there are four groups of prioritization methods based on procedure they conducted, and there are eight types of actors involved in prioritization process determined by the attributes such as power, legitimacy, and urgency they possess. The choice of method depends on where the roads to be prioritized are located.

Index Terms — Prioritization, Maintenance, Road, Local, Actors.